

General Information Form GI



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 1
01/11/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION

1. Company Name	QB Corporation
2. Facility Name (if different than #1)	
3. Facility I.D. No.	059-00008
4. Brief Project Description:	Modify Permit to include cyclones

FACILITY INFORMATION

5. Owned/operated by: (✓ If applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	Rockie Walker - Maintenance Supervisor/Purchasing
7. Telephone Number and Email Address	(208) 756-2612 - qbrock@qbcorp.com
8. Alternate Facility Contact Person/Title	
9. Telephone Number and Email Address	
10. Address to which permit should be sent	1420 Highway 28
11. City/State/Zip	Salmon, Idaho 83467-9712
12. Equipment Location Address (if different than #9)	
13. City/State/Zip	
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAISC Code	Primary SIC: 2439 Secondary SIC (if any): NAICS: 321213
16. Brief Business Description and Principal Product	Produces laminated beams, trusses and arches from dimensional lumber
17. Identify any adjacent or contiguous facility that this company owns and/or operates	

PERMIT APPLICATION TYPE

18. Specify Reason for Application	<input type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input checked="" type="checkbox"/> Modify Existing Source: Permit No.: 059-00008 Date Issued: August 12, 1998 <input type="checkbox"/> Unpermitted Existing Source: <input type="checkbox"/> Required by Enforcement Action: Case No.:
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CERTIFICATION

IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.

19. Responsible Official's Name/Title	Rockie Walker - Maintenance Supervisor Purchasing	
20. RESPONSIBLE OFFICIAL SIGNATURE	<i>Rockie L Walker</i>	Date: 12-6-07
21. <input type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.		



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COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	QB Corporation		
2. Facility Name	3. Facility ID No.		059-00008
4. Brief Project Description - Modify Permit to include cyclones One sentence or less			
PERMIT APPLICATION TYPE			
5. <input type="checkbox"/> New Facility <input type="checkbox"/> New Source at Existing Facility <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modify Existing Source: Permit No.: <u>059-00008</u> Date Issued: <u>Aug 12, 1998</u> <input type="checkbox"/> Required by Enforcement Action: Case No.: _____			
6. <input checked="" type="checkbox"/> Minor PTC <input type="checkbox"/> Major PTC			
FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form BCE - Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form SCE - Scrubbers Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

DEQ USE ONLY	
Date Received	
Project Number	
Payment / Fees Included? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Check Number	



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IDENTIFICATION

Company Name: QB Corporation	Facility Name:	Facility ID No: 059-00008
Brief Project Description:	Modify permit to include cyclones	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	Industrial Boiler
2. EU ID Number:	BLR
3. EU Type:	<input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source – Previous Permit #:059-0008 Date Issued: Aug 12, 1998
4. Manufacturer:	Industrial Boiler
5. Model:	3-1800-150 HRT Design
6. Maximum Capacity:	8,910 pph steam at 135 psig and 212°F feedwater
7. Date of Construction:	1977
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, Complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	12-tube Zurn Multi-tube Collector		
11. Date of Installation:	1977	12. Date of Modification (if any):	
13. Manufacturer and Model Number:	Zurn		
14. ID(s) of Emission Unit Controlled:	BLR		
15. Is operating schedule different than emission units(s) involved?:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach and label manufacturer guarantee)		

Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	
19. Maximum Operation	

REQUESTED LIMITS

20. Are you requesting any permit limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input checked="" type="checkbox"/> Production Limit(s):	55,745 MMBtu/yr (40.4 MM lb steam/yr)
<input type="checkbox"/> Material Usage Limit(s):	
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	




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Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
Company Name: QB Corporation		Facility Name:		Facility ID No: 059-00008
Brief Project Description: Modify permit to include cyclones				
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
1. Type of Request: <input type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input checked="" type="checkbox"/> Modification to a Unit with Permit #:059-00008				
2. Use of Boiler: <input type="checkbox"/> % Used For Process <input checked="" type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other:				
3. Boiler ID Number: BLR		4. Rated Capacity: <input type="checkbox"/> Million British Thermal Units Per Hour (MMBtu/hr) <input checked="" type="checkbox"/> 8.91 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
5. Construction Date: 1977		6. Manufacturer: Industrial Boiler		7. Model: 3-1800-150 HRT Design
8. Date of Modification (if applicable):		9. Serial Number (if available): H1800-01		10. Control Device (if any): Multi-tube Note: Attach applicable control equipment form(s)
FUEL DESCRIPTION AND SPECIFICATIONS				
11. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input checked="" type="checkbox"/> Other Fuels (unit: tons /hr)
12. Full Load Consumption Rate				0.7593
13. Actual Consumption Rate				3,441.1 tons/yr
14. Fuel Heat Content (Btu/unit, LHV)				16.2 MMBtu
15. Sulfur Content wt%				
16. Ash Content wt%		N/A		
STEAM DESCRIPTION AND SPECIFICATIONS				
17. Steam Heat Content	NA	NA		12.3 MMBtu/hr
18. Steam Temperature (°F)	N/A	N/A		350
19. Steam Pressure (psi)	N/A	N/A		135
20. Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.): 55,745 MMBtu/yr				
22. Operating Schedule (hours/day, months/year, etc.): 24 hr/day				

		DEQ AIR QUALITY PROGRAM 1410 N. Hilton Boise, ID 83706 For assistance: (208) 373-0502		PERMIT TO CONSTRUCT APPLICATION									
Company Name:		QB Corporation											
Facility Name:													
Facility ID No.:		059-00008											
Brief Project Description:		Modify Permit to include cyclones											
SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES													
		3.											
1.	2.	PM ₁₀		SO ₂		NO _x		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
Industrial Boiler	BLRSTK	2.486	10.890	0.31	1.35	2.71	11.85	7.38	32.32	0.21	0.92	5.90E-04	2.59E-03
Cyclone #1	CYC1	0.333	0.693										
Cyclone #2	CYC2	0.360	0.748										
Cyclone #3	CYC3	0.392	0.816										
Cyclone #4	CYC4	1.35E-02	2.80E-02										
Cyclone #5	CYC5	1.35E-02	2.80E-02										
Cyclone #6	CYC6	1.34E-01	2.78E-01										
Cyclone #7	CYC7	3.00E-04	7.00E-04										
Cyclone #8	CYC8	2.00E-04	5.00E-04										
Target Box	TBOX	1.79E-02	3.72E-02										
Lumber Drying Kiln	KILN	4.34E-02	1.90E-02							0.34	1.50		
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		3.79	13.54	0.31	1.35	2.71	11.85	7.38	32.32	0.55	2.42	0.00	0.00

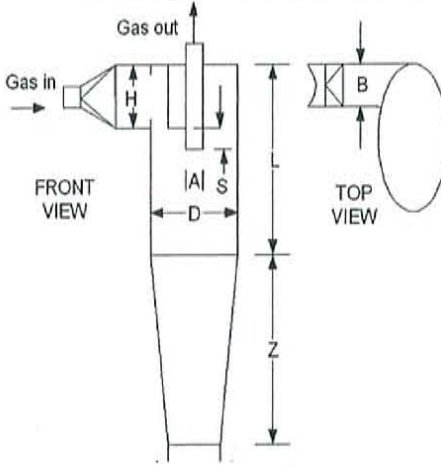


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Revision 0
04/02/07

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IDENTIFICATION																				
Company Name: QB Corporation	Facility Name:	Facility ID No.: 059-00008																		
Brief Project Description: Permit Modification for Cyclones Cyclone #1																				
CYCLONE SEPARATOR INFORMATION																				
Equipment Description																				
Manufacturer: HJ Burns Company, Inc.	Model Number:																			
Dimensions  <p>Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 18 in. 5. Z: 240 in. 2. H: 62 in. 6. D: 132 in. 3. S: in. 7. A: 66 in. 4. L: 88 in. 8. J: 18 in.</p>	Particulate Size Distribution Data <table border="1"> <thead> <tr> <th>Micron range</th> <th>Particle size distribution weight %</th> <th>Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr> <td>0.5-1.0</td> <td></td> <td></td> </tr> <tr> <td>1.0-5.0</td> <td></td> <td></td> </tr> <tr> <td>5-10</td> <td></td> <td></td> </tr> <tr> <td>10-20</td> <td></td> <td></td> </tr> <tr> <td>Over 20</td> <td></td> <td></td> </tr> </tbody> </table>		Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0			1.0-5.0			5-10			10-20			Over 20		
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	0.5-1.0																			
	1.0-5.0																			
	5-10																			
	10-20																			
	Over 20																			
Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry																				
Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																				
Blower Blower horsepower: 75 hp Design flow rate: 14,320 scfm Draft: <input type="checkbox"/> Forced <input type="checkbox"/> Induced																				
Design Criteria Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																				
Pre-Treatment Device <input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater	Post-Treatment Device <input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other:																			

Process Stream Characteristics			
Brief Description of Process			
Flow Data	<p>Gas stream temperature: 68 degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>		
Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input checked="" type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>		
Operating Schedule	Normal:	hours/day	days/week weeks/year
	Maximum:	hours/day	days/week weeks/year



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IDENTIFICATION			
Company Name: QB Corporation	Facility Name:	Facility ID No.: 059-00008	
Brief Project Description: Permit Modification for Cyclones Cyclone #2			
CYCLONE SEPARATOR INFORMATION			
Equipment Description			
Manufacturer: HJ Burns Company, Inc.	Model Number:		
Dimensions	Particulate Size Distribution Data		
	Micron range	Particle size distribution weight %	
<p>Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 18 in. 5. Z: 156 in. 2. H: 44 in. 6. D: 108 in. 3. S: in. 7. A: 51 in. 4. L: 60 in. 8. J: 13 in.</p>	0.5-1.0		
	1.0-5.0		
	5-10		
	10-20		
	Over 20		
	Type of Cyclone	<input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry	
	Type of Cyclone Unit	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone	
	Blower	Blower horsepower: 40 hp Design flow rate: 14,320 scfm Draft: <input type="checkbox"/> Forced <input type="checkbox"/> Induced	
	Design Criteria	Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure	
	Pre-Treatment Device	<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater	
Post-Treatment Device	<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other:		

Process Stream Characteristics	
Brief Description of Process	
Flow Data	<p>Gas stream temperature: 68 degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input checked="" type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
Operating Schedule	<p>Normal: 16 hours/day 5 days/week 52 weeks/year</p> <p>Maximum: hours/day days/week weeks/year</p>

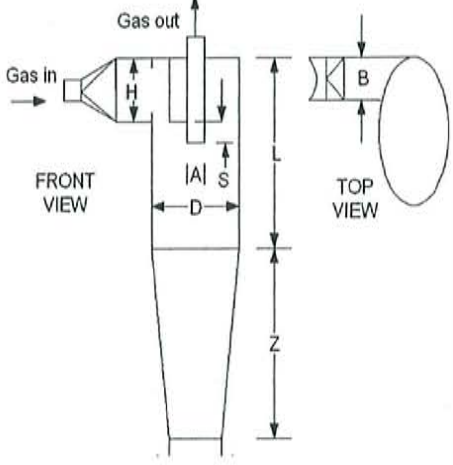


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IDENTIFICATION																				
Company Name: QB Corporation	Facility Name:	Facility ID No.: 059-00008																		
Brief Project Description: Permit Modification for Cyclones Cyclone #3																				
CYCLONE SEPARATOR INFORMATION																				
Equipment Description																				
Manufacturer: HJ Burns Company, Inc.	Model Number:																			
Dimensions  <p>Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 18 in. 5. Z: 252 in. 2. H: 45 in. 6. D: 108 in. 3. S: in. 7. A: 49 in. 4. L: 84 in. 8. J: 14 in.</p>	Particulate Size Distribution Data <table border="1"> <thead> <tr> <th>Micron range</th> <th>Particle size distribution weight %</th> <th>Manufacturer's guaranteed removal efficiency for each micron range</th> </tr> </thead> <tbody> <tr> <td>0.5-1.0</td> <td></td> <td></td> </tr> <tr> <td>1.0-5.0</td> <td></td> <td></td> </tr> <tr> <td>5-10</td> <td></td> <td></td> </tr> <tr> <td>10-20</td> <td></td> <td></td> </tr> <tr> <td>Over 20</td> <td></td> <td></td> </tr> </tbody> </table>		Micron range	Particle size distribution weight %	Manufacturer's guaranteed removal efficiency for each micron range	0.5-1.0			1.0-5.0			5-10			10-20			Over 20		
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Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry																				
Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																				
Blower Blower horsepower: 100 hp Design flow rate: 16,875 scfm Draft: <input type="checkbox"/> Forced <input type="checkbox"/> Induced																				
Design Criteria Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																				
Pre-Treatment Device <input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater																				
Post-Treatment Device <input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other:																				

Process Stream Characteristics	
Brief Description of Process	
Flow Data	<p>Gas stream temperature: 68 degrees F</p> <p>Moisture content: grams of water/cubic feet (ft³) of dry air</p> <p><u>Pressure drop range</u></p> <p>High: in. H₂O Low: in. H₂O</p> <p>Dew point temperature of process stream: degrees F</p> <p>Inlet flow rate: ACFM</p>
Dust Collection Device	<p><input type="checkbox"/> Pneumatic conveyor <input type="checkbox"/> Rotary airlock valves <input type="checkbox"/> Screw conveyors <input checked="" type="checkbox"/> Closed container</p> <p><input type="checkbox"/> Double dump <input type="checkbox"/> Drag conveyor</p> <p><input type="checkbox"/> Manual discharge device: <input type="checkbox"/> Slide gate OR <input type="checkbox"/> Hinged doors or drawers</p>
Operating Schedule	<p>Normal: 16 hours/day 5 days/week 52 weeks/year</p> <p>Maximum: hours/day days/week weeks/year</p>



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Company Name:	QB Corporation	Facility Name:																						
		Facility ID No.:	059-00008																					
Brief Project Description: Permit Modification for Cyclones Cyclone #4																								
CYCLONE SEPARATOR INFORMATION																								
Equipment Description																								
Manufacturer:	HJ Burns Company, Inc.																							
Model Number:																								
Dimensions	<p>Give dimensions of cyclone. (See sample diagram above.)</p> <p>1. B: 12 in. 5. Z: 92 in. 2. H: 28 in. 6. D: 84 in. 3. S: in. 7. A: 38 in. 4. L: 48 in. 8. J: 12 in.</p>																							
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Type of Cyclone <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry																								
Type of Cyclone Unit <input checked="" type="checkbox"/> Single <input type="checkbox"/> Quadruple <input type="checkbox"/> Dual <input type="checkbox"/> Multiclone																								
Blower Blower horsepower: 20 hp Design flow rate: 5,741 scfm Draft: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced																								
Design Criteria	Cyclone configuration: <input checked="" type="checkbox"/> Positive pressure <input type="checkbox"/> Negative pressure																							
Pre-Treatment Device	<input type="checkbox"/> Cyclone <input type="checkbox"/> Knock-out chamber <input type="checkbox"/> Precooler <input checked="" type="checkbox"/> None <input type="checkbox"/> Preheater																							
Post-Treatment Device	<input type="checkbox"/> Baghouse/Cartridge <input type="checkbox"/> HEPA <input type="checkbox"/> Other:																							